

## DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**Nitrogen-Containing Heterocyclic Compounds, Their Production and Use**

the specification of which is attached hereto unless the following box is checked:

☒ was filed on December 24, 1998 as United States Application Number or PCT International Application Number PCT/IP98/05841 and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is known by me to be material to patentability as defined in Title 37, Code of Federal Regulations § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed:

## PRIOR FOREIGN APPLICATION(S)

NUMBER	COUNTRY	DAY/MONTH/YEAR FILED	PRIORITY CLAIMED
358998/1997	Japan	26/12/97	Yes
054022/1998	Japan	05/03/98	Yes

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

APPLICATION NO.	FILING DATE

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is known by me to be material to patentability as defined in Title 37, Code of Federal Regulations § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

APPLICATION SERIAL NO.	FILING DATE	STATUS: PATENTED, PENDING, ABANDONED

I hereby appoint as my attorneys, with full powers of substitution and revocation, to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: Stephen A. Bent, Reg. No. 29,768; David A. Blumenthal, Reg. No. 26,257; William T. Ellis, Reg. No. 26,874; John J. Feldhaus, Reg. No. 28,822; Patricia D. Granados, Reg. No. 33,683; John P. Isacson, Reg. No. 33,715; Donald D. Jeffery, Reg. No. 19,980; Eugene M. Lee, Reg. No. 32,039; Richard Linn, Reg. No. 25,144; Peter G. Mack, Reg. No. 26,001; Brian J. McNamara, Reg. No. 32,789; Sybil Meloy, Reg. No. 22,749; George E. Quillin, Reg. No. 32,792; Colin G. Sandercock, Reg. No. 31,298; Bernhard D. Saxe, Reg. No. 28,665; Charles F. Schill, Reg. No. 27,590; Richard L. Schwaab, Reg. No. 25,479; Arthur Schwartz, Reg. No. 22,115; Harold C. Wegner, Reg. No. 25,258.

1004-229-0110

Address all correspondence to FOLEY & RDNER, Washington Harbour, 3000 K Street, N.W., Suite 500, P.O. Box 25696, Washington, D.C. 20007-8696. Address telephone communications to (202) 672-5300.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of First or Sole Inventor <b>FURUYA Shuichi</b>	Signature of First or Sole Inventor <i>Shuichi Furuya</i>	Date <i>Jan. 21, '99</i>
Residence Address <b>7-9-603, Kasuga 1-chome, Tsukuba-shi, IBARAKI 305-0821 JAPAN</b>	Country of Citizenship <b>JAPAN</b>	
Post Office Address <b>The same as above</b>		

Full Name of Second Inventor <b>IMAEDA Toshihiro</b>	Signature of Second Inventor <i>Toshihiro Imaeda</i>	Date <i>Jan. 21, '99</i>
Residence Address <b>12-1-303, Matsushiro 3-chome, Tsukuba-shi, IBARAKI 305-0035 JAPAN</b>	Country of Citizenship <b>JAPAN</b>	
Post Office Address <b>The same as above</b>		

Full Name of Third Inventor <b>SASAKI Satoshi</b>	Signature of Third Inventor <i>Satoshi Sasaki</i>	Date <i>Jan. 21, '99</i>
Residence Address <b>9-5-2, Taguhigashi, Kashiwadacyo, Ushiku-shi, IBARAKI 300-1211 JAPAN</b>	Country of Citizenship <b>JAPAN</b>	
Post Office Address <b>The same as above</b>		

Full Name of Fourth Inventor	Signature of Fourth Inventor	Date
Residence Address	Country of Citizenship	
Post Office Address		

Full Name of Fifth Inventor	Signature of Fifth Inventor	Date
Residence Address	Country of Citizenship	
Post Office Address		

# ASSIGNMENT

Atty. Dkt. No. 087147-0468 or Joint

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto **TAKEDA CHEMICAL INDUSTRIES, LTD.,**

a corporation of Japan

1-1, Doshomachi 4-chome, Chuo-ku, Osaka, Japan

name and  
address of  
assignee

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his invention relating to

title of  
invention

Nitrogen-Containing Heterocyclic Compounds,  
Their Production and Use

as set forth in his United States Patent Application

check one

☐ executed concurrently herewith

☐ executed on \_\_\_\_\_

☐ Serial No. \_\_\_\_\_ Filed \_\_\_\_\_

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of FOLEY & LARDNER the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

## NAMES AND SIGNATURES OF INVENTORS

Name: FURUYA Shuichi	Signature: <i>Shuichi Furuya</i>	Date: Jan. 21, '99
Name: IMAEDA Toshihiro	Signature: <i>Toshihiro Imaeda</i>	Date: Jan. 21, '99
Name: SASAKI Satoshi	Signature: <i>Satoshi Sasaki</i>	Date: Jan. 21, '99
Name: _____	Signature: _____	Date: _____

## NAMES AND SIGNATURES OF WITNESSES

Name: NARA Yoshi	Signature: <i>Yoshi Nara</i>	Date: Jan. 21, '99
Name: ASAMI Taiji	Signature: <i>Taiji Asami</i>	Date: Jan. 21, '99

Note: Prima facie evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.

10044229-01102  
NOT TO BE REPRODUCED